



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-24-L38-835-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 19272.2

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-APR-2015

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-72LED 22"ARRAYS 2x4'RECESSED LUMINAIRE

[MORE] WHITE REFLECTOR w/ ACRYLIC RIBBED CENTER DIFFUSER

[MORE] EVERLINE LED DRIVER #D21CC80UNVTZ-D SET @ 78

[LUMCAT] PTR-24-L38-835-SA-xxx-xxx

[LAMPCAT] M700C835D72N2A

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Retrofit

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	31.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1695	1792	1893
55	1499	1639	1780
65	1350	1593	1825
75	1033	1598	2012
85	668	1757	1792

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1442.605	1442.605	1442.605	1442.605	1442.605
5	1435.120	1434.050	1435.120	1435.120	1435.654
10	1407.850	1408.920	1410.524	1412.663	1413.732
15	1345.291	1346.895	1350.638	1357.054	1359.728
20	1308.397	1312.140	1320.695	1330.320	1334.597
25	1207.340	1212.152	1230.332	1236.748	1242.095
30	1106.283	1139.434	1174.724	1230.866	1173.654
35	995.601	1004.691	1027.148	1049.605	1059.230
40	904.168	914.862	942.131	969.936	983.303
45	836.797	849.629	884.919	919.140	934.646
50	719.164	734.135	772.099	808.993	824.499
55	600.462	616.503	656.605	696.707	712.748
60	487.641	506.890	549.666	589.768	607.413
65	398.347	421.339	469.996	517.049	538.437
70	291.943	321.351	378.564	431.498	452.351
75	186.608	222.968	288.735	342.204	363.592
80	104.800	152.923	221.363	259.327	269.486
85	40.637	83.412	106.939	108.008	109.078
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	520.35	N.A.	13.40
0-30	1090.88	N.A.	28.10
0-40	1743.27	N.A.	45.00
0-60	3005.52	N.A.	77.50
0-80	3769.35	N.A.	97.20
0-90	3876.01	N.A.	100.00
10-90	3739.81	N.A.	96.50
20-40	1222.92	N.A.	31.60
20-50	1896.04	N.A.	48.90
40-70	1723.62	N.A.	44.50
60-80	763.83	N.A.	19.70
70-80	302.45	N.A.	7.80
80-90	106.66	N.A.	2.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3876.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.20
10-20	384.16
20-30	570.52
30-40	652.40
40-50	673.12
50-60	589.12
60-70	461.38
70-80	302.45
80-90	106.66
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

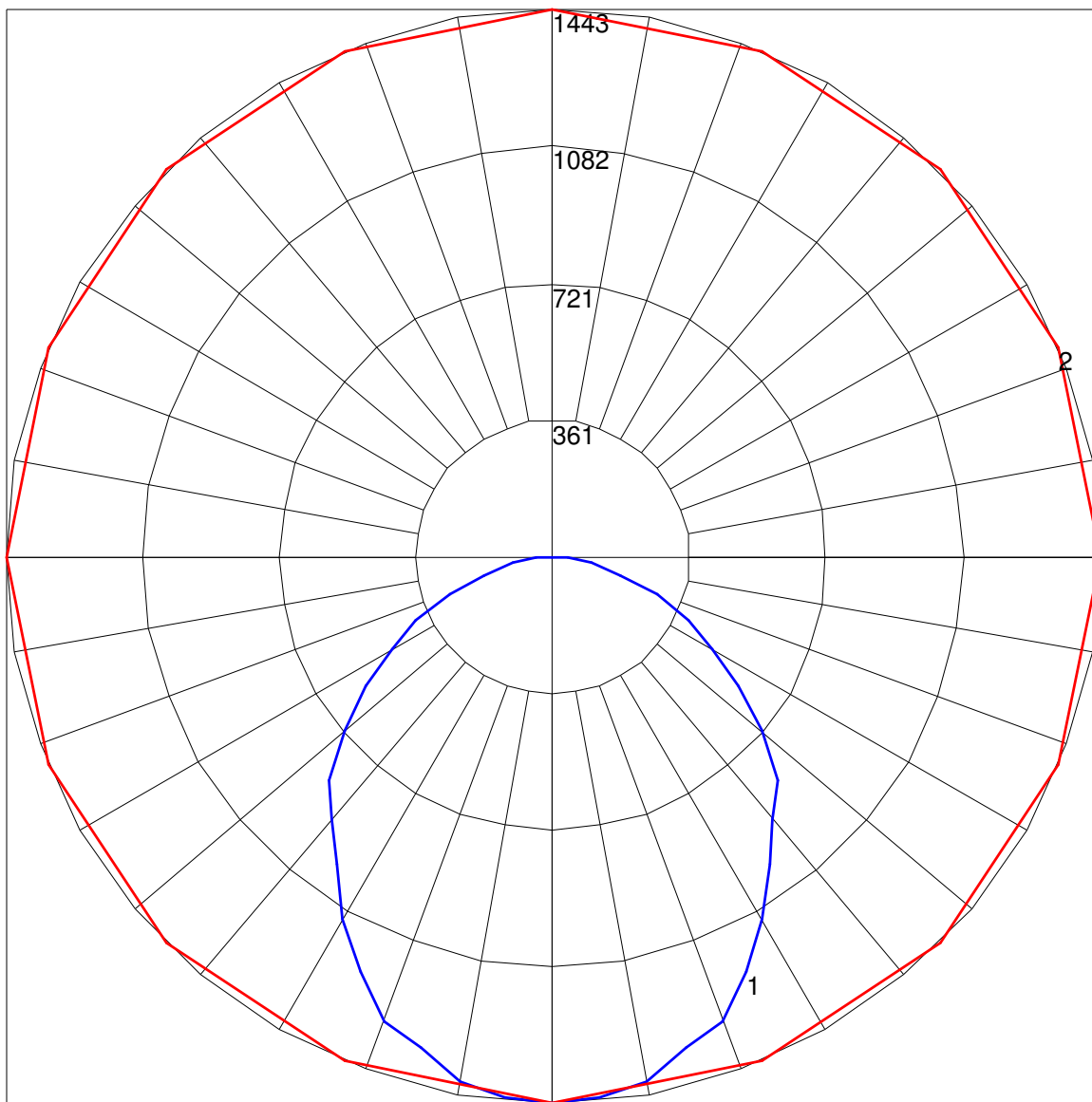
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	50	50	50	50	49	49	49	49	46	46	46	44	44	44	43	43	43	42
1	45	43	41	40	44	42	40	39	40	39	38	39	38	37	37	36	35	35
2	41	38	35	32	40	37	34	32	35	33	31	34	32	30	33	31	30	29
3	37	33	29	27	36	32	29	26	31	28	26	30	28	26	29	27	25	24
4	34	29	26	23	33	29	25	23	28	25	22	27	24	22	26	23	22	21
5	32	26	22	20	31	26	22	19	25	22	19	24	21	19	23	21	19	18
6	29	24	20	17	28	23	20	17	22	19	17	22	19	17	21	19	17	16
7	27	21	18	15	26	21	18	15	20	17	15	20	17	15	19	17	15	14
8	25	20	16	14	25	19	16	14	19	16	13	18	15	13	18	15	13	12
9	24	18	15	12	23	18	14	12	17	14	12	17	14	12	16	14	12	11
10	22	17	13	11	22	16	13	11	16	13	11	16	13	11	15	13	11	10

POLAR GRAPH



Maximum Candela = 1442.605 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)